Webcor

REGENT II

HIGH FIDELITY

Tape Recorder

WITH
SLIDE PROJECTOR
SYNCHRONIZER JACK

INSTRUCTION HANDBOOK

PLEASE READ BEFORE OPERATING THIS TAPE RECORDER

PART NO. 79P944 (REV. 6/1/61)

Introducing your new Webcor Regent II tape recorder

FEATURES OF THE WEBCOR REGENT II HIGH FIDELITY, PUSH BUTTON TAPE RECORDER

Frequency Response: Normal Voice Frequency at 1⅞ ips; 50–10,000 cycles at 3¾ ips; 50–13,000 cycles at 7½ ips.

Amplifier: 10 Watts power output.

Wow and Flutter: Less than .4% at 3¾ ips and 7½ ips.

Signal to Noise Ratio: —40 db.

Speaker System: One high fidelity 3" x 5" elliptical speaker.

Microphone: Hand held wide range. Ceramic element.

Jacks: External Speaker, "Proj. Sync.–Ext. Amp."

CONTENTS OF CARTON

1. Monaural Tape Recorder.
2. One 5" reel of WEBCOR pre-tested tape.
3. One 5" take-up reel.
4. High impedance wide range microphone.
5. Multi-Purpose Connecting Cable.

SPECIAL INFORMATION

Webcor tape recorders operate on 117 ± 10% volts, 60 cycles AC unless otherwise specified on identification plate on rear of tape recorder.

IMPORTANT

Should it be necessary to operate the recorder on another voltage source, or on direct current (DC), local electronic supply houses can furnish converters that may be used with the tape recorder.

LUBRICATION

The motor on this tape recorder should be lubricated once a year, or after every 500 hours of operation, whichever occurs first. See your authorized Webcor Service Agency.

To insure adequate ventilation when operating this recorder, remove the lid while the recorder is operating. To remove lid, release catch on front of case and lift lid from recorder.

Place recorder on a flat surface in a vertical or horizontal position.

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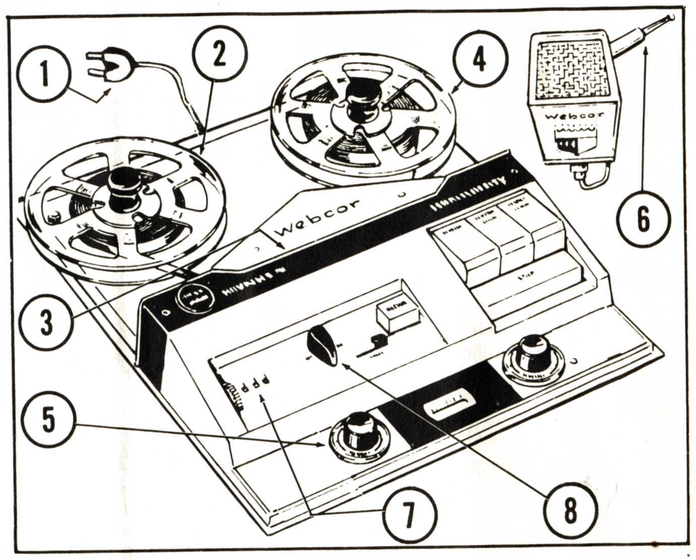
Preparing your tape recorder for monaural recording

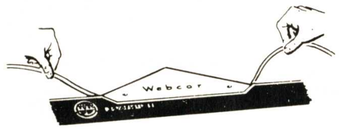


1 **PLUG IN A.C. CORD.** Insert into any conventional 117 volt, 60 cycle AC electric outlet. **TURN UNIT ON.** Turn volume control clockwise. After allowing a brief warm-up period, slide the edit lever to the left and depress the record button. Touch one hand to a metal portion of the recorder. If the record level indicator moves, reverse the AC plug in the socket to reduce hum level.

2 Remove the small strip of adhesive tape that holds the tape to the reel.

PLACE LOADED TAPE REEL ON LEFT REEL SPINDLE. Unwind about 18" of tape.

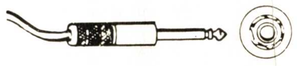
3 **PLACE SECTION OF TAPE IN TAPE THREADING SLOT.**



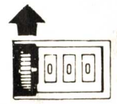
4 **PULL TAPE THROUGH TAPE SLOT; INSERT END INTO SLOT ON EMPTY REEL.** Wind 3 or 4 turns around empty reel.

5 **TURN MONITOR "OFF."** Turn Monitor-Tone control completely clockwise.

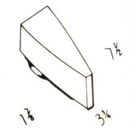
6 **INSERT LARGE PLUG ON CORD INTO MICROPHONE INPUT JACK. CONNECT SMALL PHONO PLUG TO MICROPHONE.**



7 **SET TAPE COUNTER TO 000.** Rotate Reset Wheel on Tape Counter toward rear of recorder.



8 **TURN TAPE SPEED SELECTOR TO DESIRED SPEED.** Change speeds only when power is "ON".



Your Webcor "Regent II" records and plays back from left to right only. Insure that glossy side of tape faces the outside of the reel. This is known as "A" wind tape. Webcor Pre-Tested Recording Tape is selected for uniformly high quality and wide frequency range. For best results, use Webcor Recording tape.

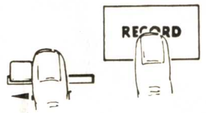
(a) 1⅞ inches per second—Used for recording speech, lectures, conferences, etc. Longest playing time at this speed. You can record and playback for as long as 6 hours in a single direction at this speed using .001 Mylar Base Recording Tape.

(b) 3¾ inches per second—Used for recording AM radio programs or voice recordings.

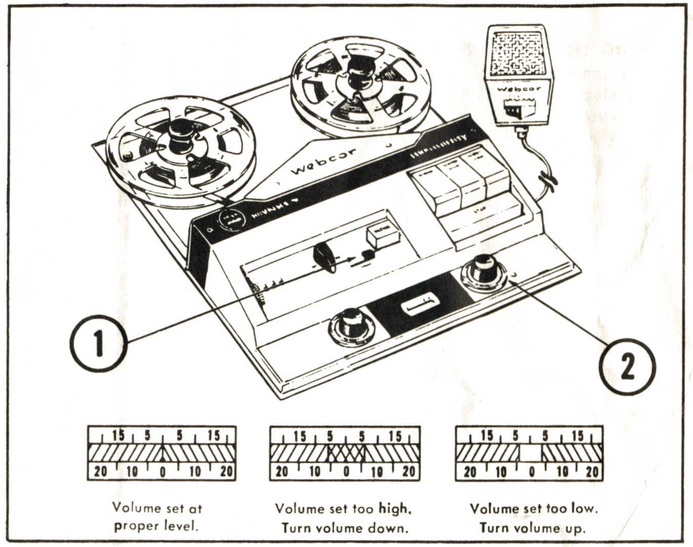
(c) 7½ inches per second—Best position for recording music. Greater fidelity, and best frequency response at this speed.

To set correct recording level:

1 **SLIDE EDIT KEY TO LEFT AND DEPRESS RECORD BUTTON.** Button will lock in place.



2 **SET POINTER ON VOLUME CONTROL TO "O". SPEAK INTO MICROPHONE.** Notice how far record level indicator advances in relation to "O" on level indicator scale. Advance volume control the exact number of units that the indicator falls short of "O".

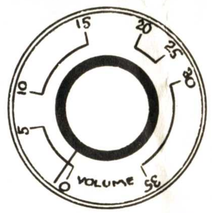


Volume set at proper level.

Volume set too high. Turn volume down.

Volume set too low. Turn volume up.

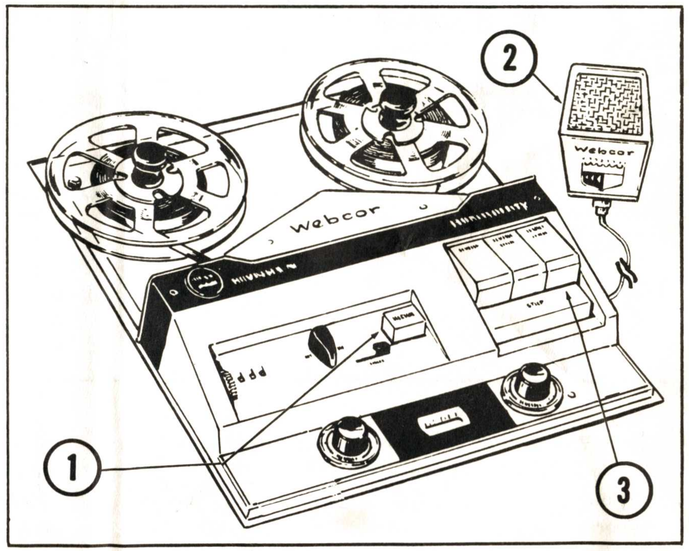
3 Alternate Method: **ADJUST VOLUME CONTROL UNTIL SHADOW BARELY CLOSES ON LOUDEST SOUND YOU WILL RECORD.** Record Level Indicator and Volume control graduations are correlated so that an advance of 5 units on the record level indicator is obtained by advancing the volume control 5 units.



To begin recording:

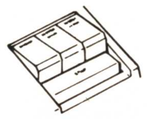
1 **DEPRESS RECORD BUTTON AND RECORD-PLAY KEY** after adjusting for correct recording level.

2 **MAKE YOUR RECORDING.** Hold microphone slightly away from your mouth when speaking.



3 **WHEN FINISHED RECORDING, PRESS STOP BAR.**

IMPORTANT! Never operate the Fast Forward, Rewind, and Record-Play keys with more than one finger at a time.



To playback your recording:

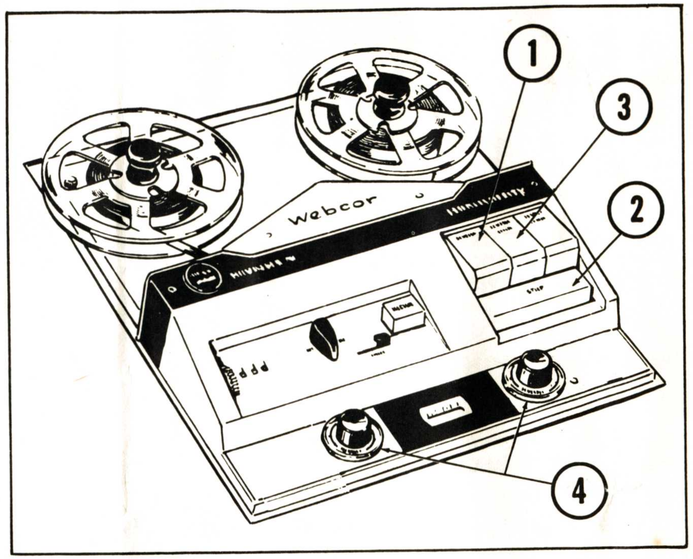
1 **REWIND THE TAPE.** Depress Rewind Key.

2 **WHEN YOU HAVE REACHED THE BEGINNING OF YOUR RECORDING, PRESS STOP-BAR. NOTE:** If tape counter was set at 000 prior to recording, press stop-bar when counter reaches 000.

3 **TO PLAYBACK RECORDING, PRESS RECORD-PLAYBACK KEY.**

4 **SET VOLUME AND TONE CONTROLS TO SUIT YOUR LISTENING PLEASURE.**

5 **WITH PLAYBACK COMPLETED, PRESS STOP BAR.**



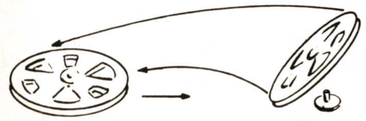
Dual track recording

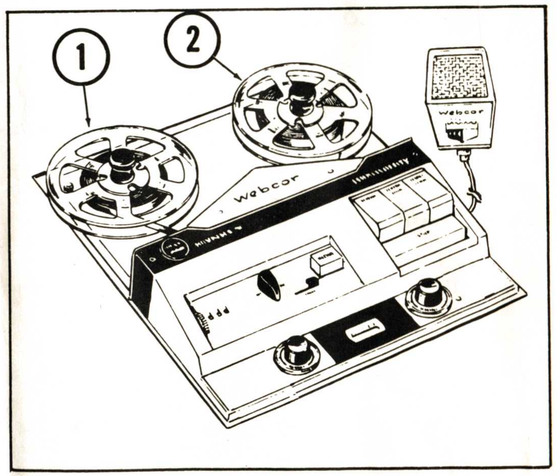
The Webcor "Regent II" is a Dual Track Tape Recorder. This means that it is possible to record and playback on both tracks of a single reel of tape. Only one half of the tape width is utilized when you record or playback. Reversing the reels permits you to record and playback on the second track, thereby doubling the playing time of a single reel of tape. To record (or playback) the second track of a tape, follow the instructions below after the initial recording has been made (from left to right) on the first track.

TAPE

1 **REMOVE EMPTY REEL FROM LEFT HUB.**

2 **REMOVE LOADED REEL FROM RIGHT HUB, TURN OVER AND PLACE ON LEFT HUB. NOW PLACE EMPTY REEL ON RIGHT HUB.**





3 **PREPARE UNIT FOR MONAURAL RECORDING AS INSTRUCTED ON PAGE 3.**

4 **YOU MAY NOW RECORD AND PLAYBACK ON TRACK 2 OF YOUR TAPE.**

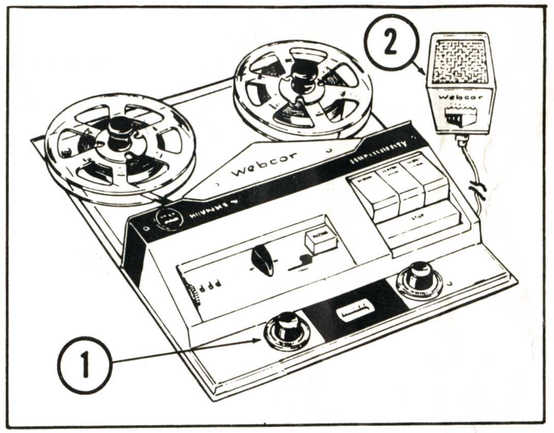
To use Monitor control:

The Monitor Control on the "Regent II" permits you to listen to your recording as it is being made. This is particularly useful when you wish to record from an external sound source without a microphone (see accessory section). Should you have occasion to use the Monitor Control while recording with a microphone, the microphone must be kept away from the front of the speaker to prevent feedback.

1 **TO MONITOR RECORDINGS, TURN MONITOR CONTROL COMPLETELY COUNTER-CLOCKWISE.**

2 **KEEP MICROPHONE AWAY FROM FRONT OF SPEAKER.**

3 **YOU WILL HEAR YOUR RECORDING AS IT IS BEING MADE.**



To use recorder as a Public Address system:

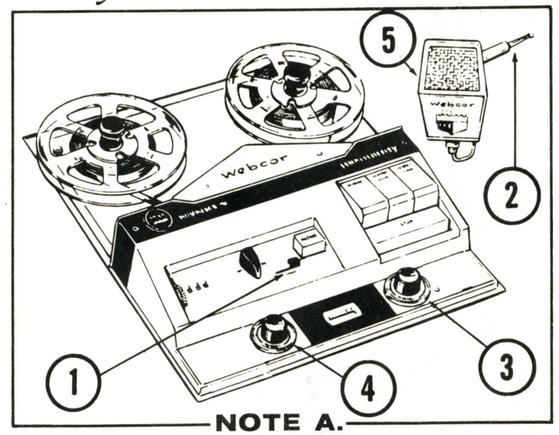
1 **SLIDE EDIT KEY TO LEFT AND DEPRESS RECORD BUTTON.**

2 **INSERT MICROPHONE CORD INTO INPUT JACK.**

3 **TURN UNIT "ON".** Turn Volume Control clockwise. Keep microphone away from front of speaker to prevent "feedback" howl.

4 **TURN MONITOR "ON".**

5 **SPEAK INTO MICROPHONE.** Adjust volume to desired level. See note A.

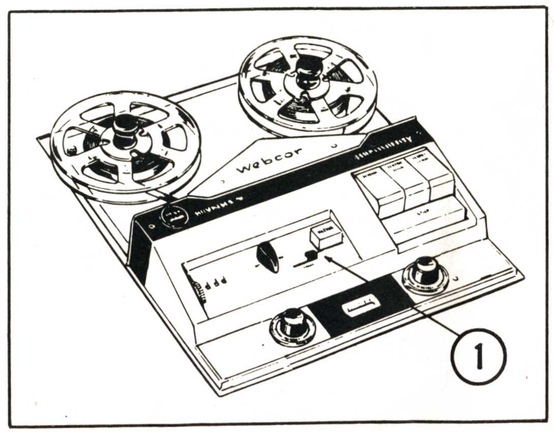


NOTE A.

You may record while using the tape recorder as a public address system. Follow the instructions on page 4.

How to use the Edit Key

The Edit Key permits you to stop and start the "Regent II" instantaneously, during record or playback operations. There is no danger of tearing or stretching the tape with the Edit Key. Precise editing (eliminating a single word from a recording) is possible after several practice sessions. NOTE: The Edit Key does not function in Fast Forward or Rewind positions.



1 **TO EDIT, SLIDE EDIT KEY TO LEFT. RELEASE KEY AND RECORDER WILL CONTINUE TAPE TRANSPORT.** To selectively erase (edit) information from a tape, slide edit key to the left immediately upon reaching portion to be erased, and depress record button. After editing the unwanted information, depress the stop bar.

How to erase a tape recording

A new recording may be made on a tape previously recorded without first erasing the tape. Simply begin recording and the old recording will be erased automatically as you record the new.

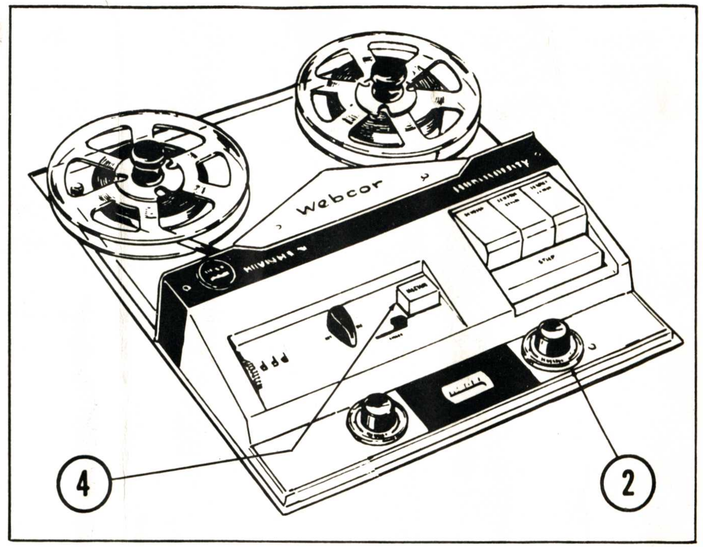
TO ERASE A TAPE COMPLETELY

1 **SET UP TAPE RECORDER AS YOU WOULD FOR RECORDING,** see Page 3.

2 **TURN VOLUME DOWN AS LOW AS POSSIBLE.**

3 **DO NOT CONNECT MICROPHONE.**

4 **PUSH RECORD LEVER DOWN AND DEPRESS RECORD PLAY KEY SIMULTANEOUSLY.**



When finished erasing, rewind the tape. To erase the second track on the tape, reverse the reels and repeat this operation.

NOTE: Because you are able to erase a tape, a single reel of tape can be used for countless recordings.

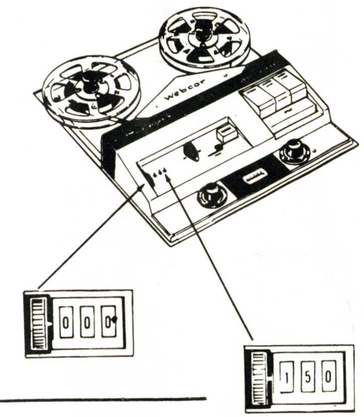
How to use tape counter

Another outstanding feature of your Webcor Tape Recorder is the **Numerical Type Tape Counter** which can be used to rapidly and easily locate any section on a reel of tape.

1. Before recording, set **Tape Counter** at **000.** This is done by rotating **Reset Wheel** toward rear of recorder.

2. As you record make note of particular sections of tape that you may wish to listen to again.

3. At the conclusion of your first recording, jot down the number reading on your **Tape Counter** For instance, if your reading is **150**, you know your first recording lies between **000** and **150**. Allow a few numbers to pass by before you begin your second recording. At the end of your second recording, jot down the number reading on the **Tape Counter,** and continue this for every recording.



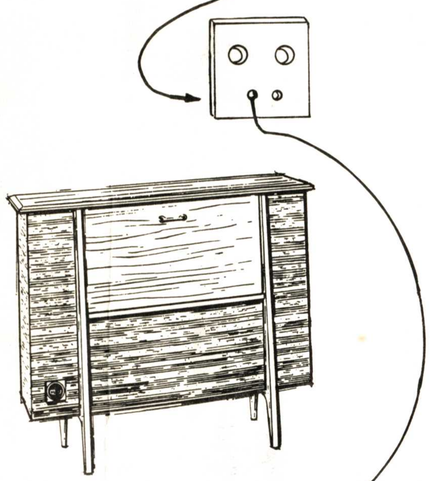
NOTE: All Webcor Tape Boxes have a chart printed on the back so that a record may be kept with each reel of tape. Make your notations immediately following a recording. These recordings may be played back or stored in a tape library indefinitely.

Webcor Tapes, because of their high quality and true recording fidelity are the best to use with a Webcor Tape Recorder. Inferior tapes will often produce unsatisfactory recordings.

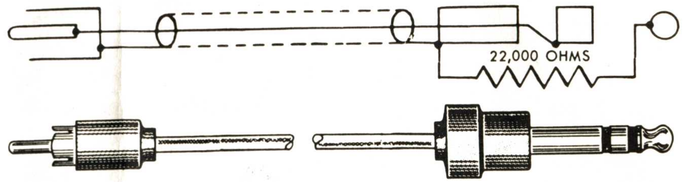
Additional Features of your Webcor Tape Recorder

WEBCOR ACCESSORIES ARE AVAILABLE AT YOUR WEBCOR DEALER

INSERT SMALL CINCH PLUG INTO EXT. AMP. CH. 1, REAR OF FONOGRAF CABINET.



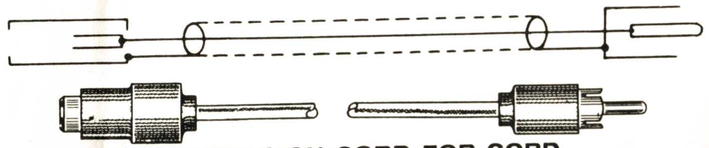
HOW TO RECORD DIRECT FROM A WEBCOR FONOGRAF OR ANY AM-FM TUNER TO A WEBCOR TAPE RECORDER



USE WEBCOR INPUT CORD NO. A2925

For direct tape recording from any AM-FM tuner or Webcor Fonografs having Output Jack.

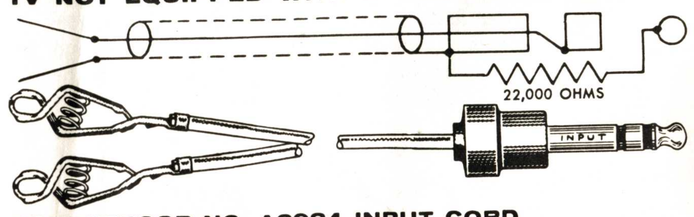
1. Insert small cinch plug on cord into EXT. AMP. CH. 1 or Output Jack on Fonograf or AM-FM tuner.
2. Insert large plug on cord into Input Jack on "Regent II" Tape Recorder.
3. Play Fonograf or AM-FM tuner and operate tape recorder as instructed.
4. If your radio or Fonograf does not have an Output Jack, a qualified technician can easily install one for you. **$3.00**



NO. A2926 EXTENSION CORD FOR CORD NO. A2925

15′ extension cord permits you to extend length of Input cord No. 2925. Insert small cinch plug on Input cord into receptacle on extension cord. Then follow instructions given with Input cord No. 2925. ..... **$2.50**

HOW TO RECORD FROM AN AM-FM RADIO OR TV NOT EQUIPPED WITH AN OUTPUT JACK

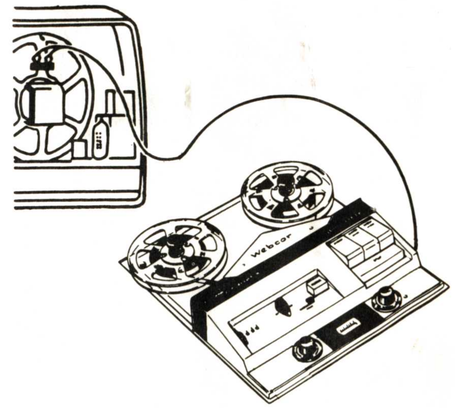


USE WEBCOR NO. A2934 INPUT CORD WITH ALLIGATOR CLIPS

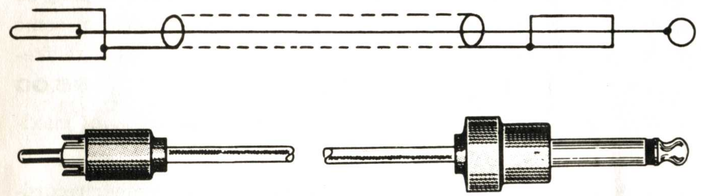
Tape Recordings can be made direct from any AM-FM radio or TV set not equipped with an Output jack using cord No. 2934. This can be done without disturbing the rendition of the program. To make this

HOW TO RECORD FROM AN AM-FM RADIO OR TV NOT EQUIPPED WITH AN OUTPUT JACK *(continued from page 8)*

possible, connect the alligator clips on the cord to the lugs on the radio or TV loudspeaker you wish to record from. The proper recording level is determined by the settings of both the radio or TV Volume control and the tape recorder Volume control. The correct Recording Volume at the tape recorder requires that the Volume control on the radio or TV be set so that sound is audible in the loudspeaker. However, it is more practical to raise the radio or TV Volume so that there is more than ample sound from the speaker. In either case, the Tape Recorder Volume control should be set so that the Cathode Ray tube indicates the correct recording level as described in the tape recorder operating instructions. **$3.00**

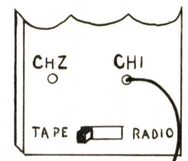


HOW TO PLAY THE WEBCOR REGENT II TAPE RECORDER THROUGH A WEBCOR FONOGRAF OR OTHER HIGH QUALITY AMPLIFIER AND SPEAKER SYSTEM

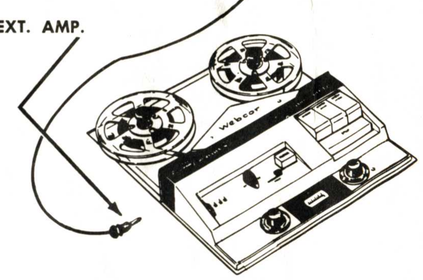


USE THE CORD PROVIDED WITH YOUR TAPE RECORDER

1. Insert large phone fully into EXT. AMP jack on Tape Recorder.
2. Insert small cinch plug on opposite end of cord into AUX. INPUT receptacle on rear of Fonograf or other system used.
   NOTE: When using a Webcor Fonograf, turn selector control to AUX. INPUT.
3. Play Tape Recorder and adjust volume and tone controls on Tape Recorder and Fonograf to suit your listening pleasure. Sound will play through both units simultaneously.



EXT. AMP.



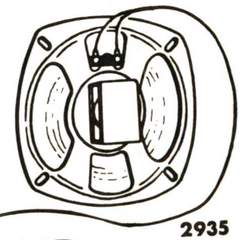
HOW TO USE " REGENT II " TAPE RECORDER WITH AN EXTERNAL SPEAKER

USE WEBCOR OUTPUT CORD NO. 2935

1. Insert Large Output Plug on cord into Ext. Spkr. Jack on tape recorder.
   a. Plug inserted fully—sound will play through external speaker only.
   b. Plug inserted half way — sound will play through external speaker and tape recorder speaker.
2. Remove small cinch plug from cord and attach bare lead wires to terminal lugs on loudspeaker. **$2.50**

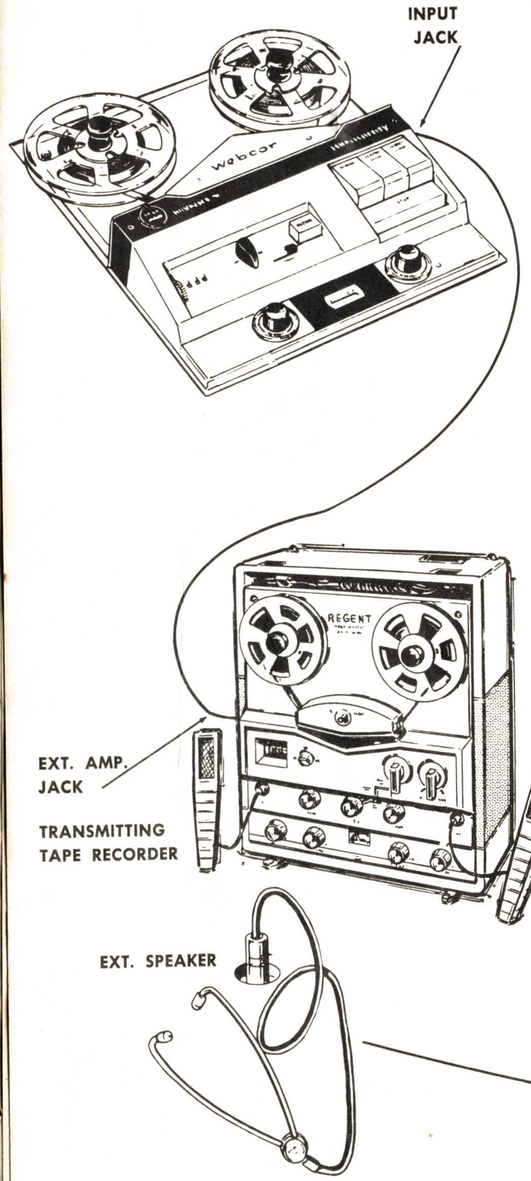
NOTE: When using an external speaker enclosure equipped with an input jack, you may use the cord provided with the tape recorder. Insert the large phone plug into the EXTERNAL SPEAKER jack on the tape recorder (halfway or fully inserted). Then insert the small cinch plug into the INPUT jack on your speaker enclosure.

USE 8 OHM IMPEDANCE SPEAKER.

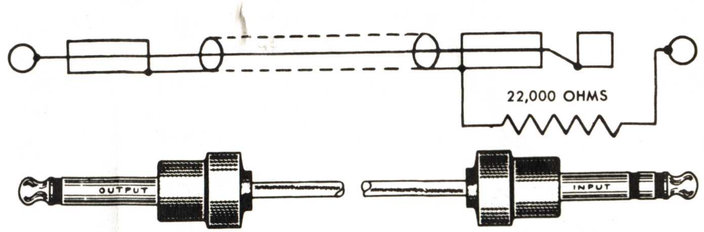


2935

EXT. SPKR JACK



HOW TO DUPLICATE TAPES USING TWO TAPE RECORDERS



USE WEBCOR NO. A2943 OUTPUT TO INPUT CORD

You can duplicate (copy) tapes using two tape recorders and Output to Input cord No. 2943. Connect Output plug on cord to *External Amplifier* (Output) jack on transmitting tape recorder. Insert Input plug on cord into *Input* jack on recording tape recorder.

Important: Transmitting recorder must have speed set at that speed which the original recording was made. Speed on the recording unit may be set at a slower speed, i.e. 3¾ or 1⅞. For example. Two full reels of material originally recorded at 7½ inches per second,may be duplicated and confined to one full reel at 3¾ ips. However, some High Fidelity material recorded at 7½ ips may lose its high frequency response when re-recorded at 3¾ ips. **$5.00**

1. Set *Volume* level on transmitting recorder at about ¾ of maximum.
2. Adjust *Volume* level on duplicating recorder to a proper recording level as indicated by the Cathode Ray Tube. In general, transmitting *Volume* level should be rather high and duplicating level relatively low.
3. Set transmitting recorder to its Playback operation. Set duplicating tape recorder to its Record operation.

NO. A 2914 WEBCOR EARPHONES

Excellent for taking notes from your recordings or for monitoring tapes. Insert plug on earphone cord fully into EXT. SPEAKER jack on tape recorder..... **$12.00**

WEBCOR PRE-TESTED RECORDING TAPE

NO. 2906 RECORDING TAPE 7" REEL **$3.50**

NO. 2907 RECORDING TAPE 5" REEL **$2.25**

Pre-tested for uniformly high quality and wide frequency response. For better performance use Webcor Recording Tapes with Webcor Tape Recorders.

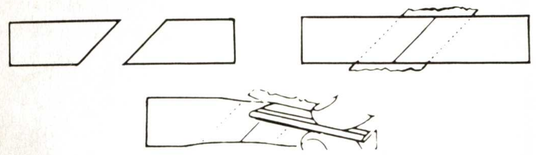
NO. 2908 EMPTY TAPE 7" REEL **$ .75**

NO. 2909 EMPTY TAPE 5" REEL **$ .65**

General Information

HOW TO EDIT AND SPLICE TAPE

1. To remove or insert a section of tape, or if the tape is accidentally torn, you can easily splice the ends together.
2. Lap two ends of tape, then cut at 45° angle.
3. Butt the ends together smoothly, then place a short length of splicing tape over the joint.
4. Trim the edges of the splicing tape so that no sticky surface extends out from the edges of the recording tape.



CAUTION: Do not use cellophane tape for splicing. It will "Blend" and cause adjacent layers of recording tape to stick together. Use only splicing tape made for this purpose. It is available at your Webcor dealer.

IMPORTANT: Improperly spliced tape may cause a malfunction in the tape recorder. This *is not* covered in the Webcor warranty.

HOW TO STORE TAPE

It is best not to crease or twist recording tape. Keep your tapes in a cool place, away from heat. Do not let them dry out. In handling tape, avoid touching the recording side with your fingers.

HOW TO MAINTAIN YOUR RECORDER

Your recorder will not need lubrication for a long time. For adjustments and lubrication, it is best to take your recorder to your dealer or Authorized Webcor Service Agency listed on enclosed sheet.

CLEANING RECORDING HEADS

It is normal for dust, lint and oxide from tape to gradually accumulate on the face of the magnetic recording heads. This results in poor erasure, loss of higher frequencies, loss of volume, distortion and intermittent sound.

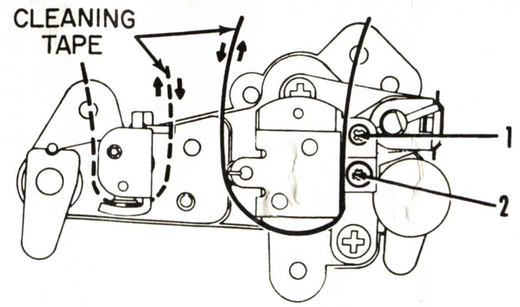


Figure 4. Top View of Head Bridge

To clean the heads, remove the two phillips-head screws which hold the head cover to the recorder. With the head cover removed, wrap a head cleaning tape or a clean white shoe lace which has been saturated with alcohol around the Record/Play head (See Illustration). Draw the head cleaning tape back and forth over the head until the oxide formation is removed from the head.

Clean the erase head, and the tape guide posts in the same manner. When re-installing the head cover, be sure the rubber grommet between the top plate and the head cover is replaced.

CAUTION: Do not disturb any adjustment screws (1 and 2) while the head cover is removed.

SOLVING TYPICAL RECORDING PROBLEMS

1. No Sound on tape sent by a friend.

The tape may be "B" wound, with the dull, recorded side facing away from the reel hub. Rewind it, but turn the tape over on the empty reel side of the Threading Slot so the dull, recording side faces the hub when attaching to the Take-up Reel.

2. Recording sounds garbled and distorted

Do not "over-record." Do not turn the volume control high enough to cause the shadow of the magic eye volume level indicator to overlap or you will over-record.

3. Recording sounds thin and weak.

If the volume control was not turned up far enough, a weak recording will result. Full volume will be needed when playing back or it will sound weak and thin.

4. The recording sounds very fast or very slow.

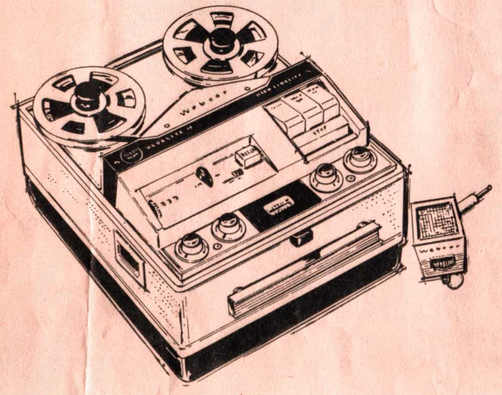
The Tape Speed Control is in the wrong position.

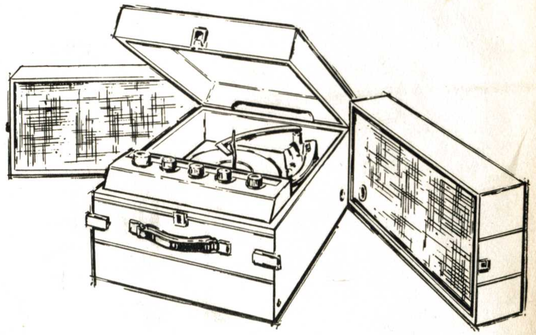
5. "Thumps" and noises in background.

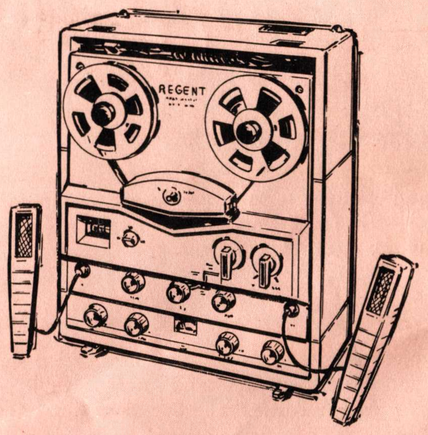
Your friends were not quiet while the recording was being made. The microphone may have been lying on a table. Cushion it with a folded cloth or rubber sponge to absorb the jars and table noises.

all music sounds better on a

WEBCOR







WEBCOR INC., 5610 W. BLOOMINGDALE AVE., CHICAGO, ILL.

WEBCOR SERVICE DEPT., 912 W. NORTH AVE., CHICAGO, ILL.

WEBCOR WARRANTY: Webcor warrants this unit for a period of ninety (90) days from the date of purchase, to be free from defects in material and workmanship.

This warranty does not cover abuse, neglect, improper operation, tampering by unauthorized personnel, damage inadvertently caused by the user. In all cases of in-transit damage, a claim must be filed with the Carrier.

Webcor has established a Network of Authorized Service Agencies geographically located to serve its customers efficiently.

Should your Webcor Product require service within Warranty, return it to the nearest Authorized Service Agency or contact your Dealer for instructions on "In-Warranty" service.

IMPORTANT: If model, serial, or registration numb[illegible] is defaced or removed from unit, or dated sales slip is not attached to warranty card, Warranty is "VOID."

Webcor

REGENT II

HIGH FIDELITY

Tape Recorder

WITH SLIDE PROJECTOR

SYNCHRONIZER JACK

INSTRUCTION HANDBOOK

PLEASE READ BEFORE OPERATING THIS TAPE RECORDER

PART NO. 79P944 (REV. 6/1/61)

all music sounds better on a

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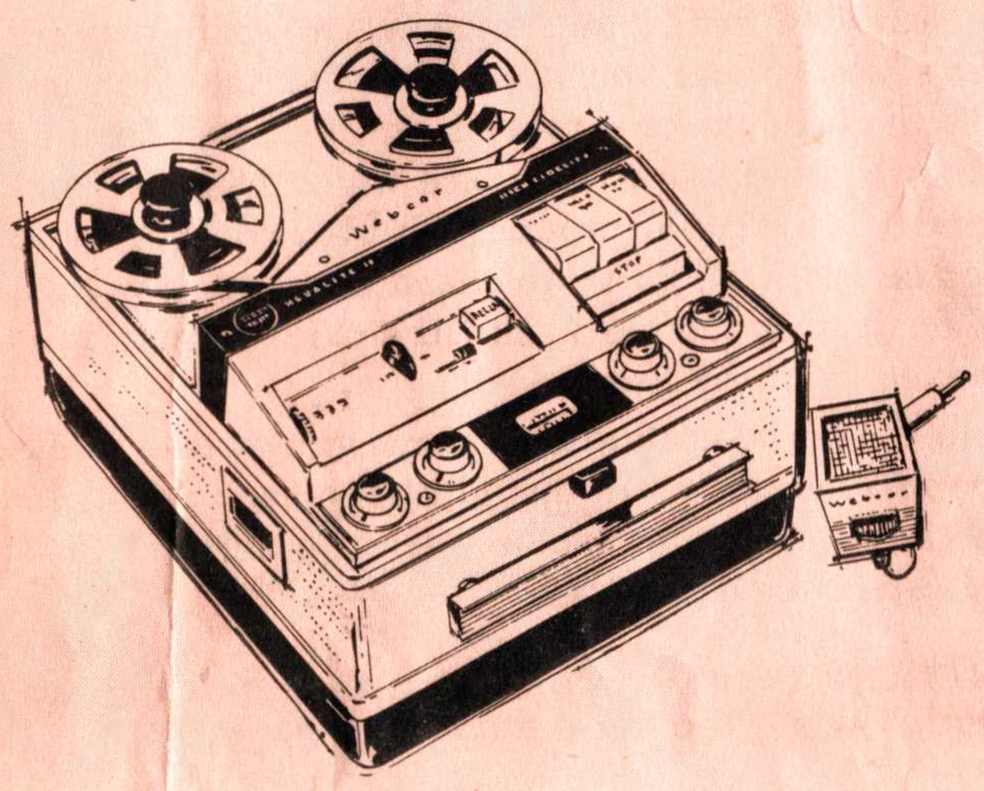

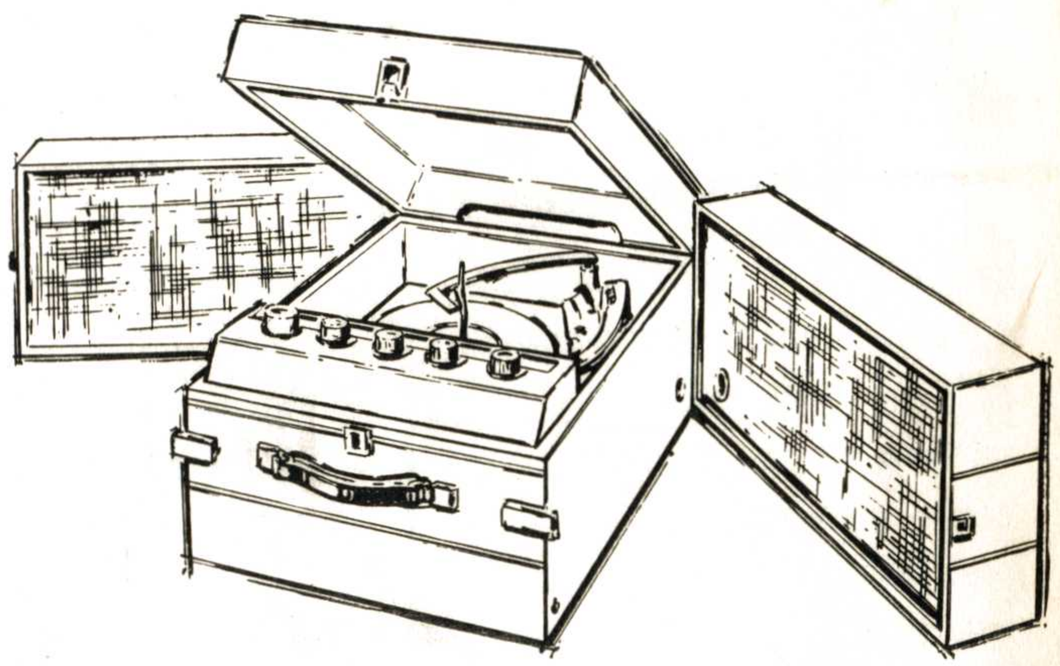

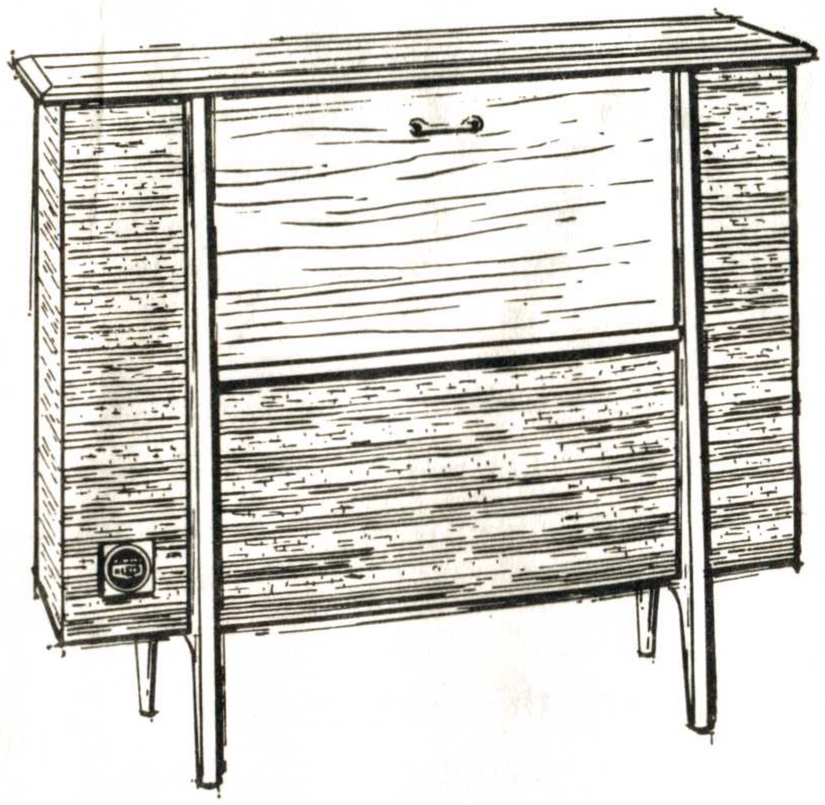

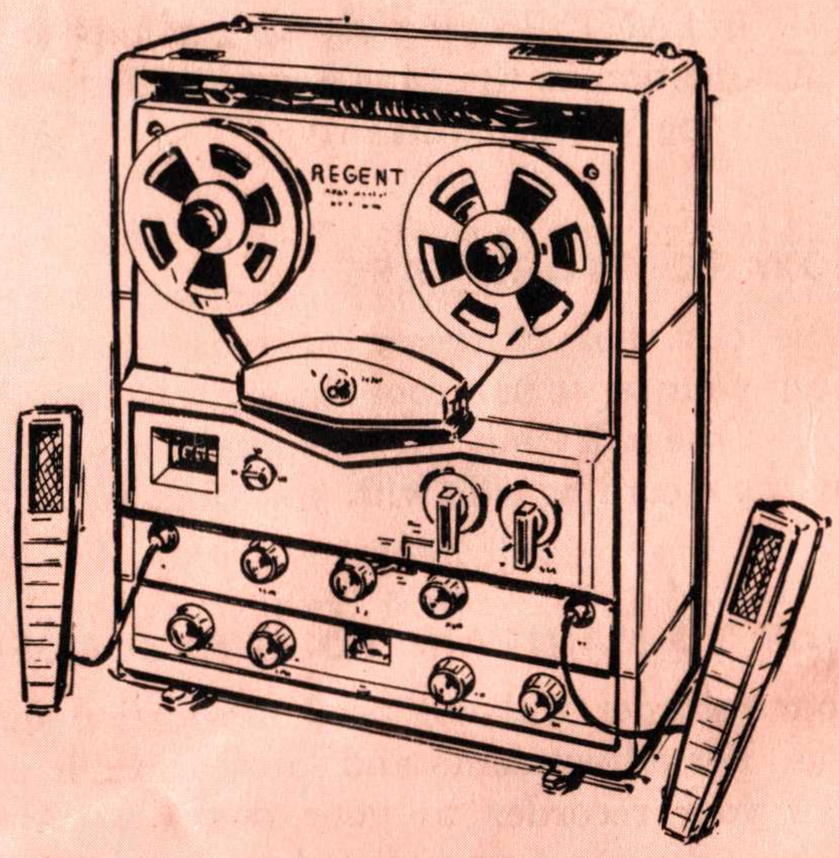

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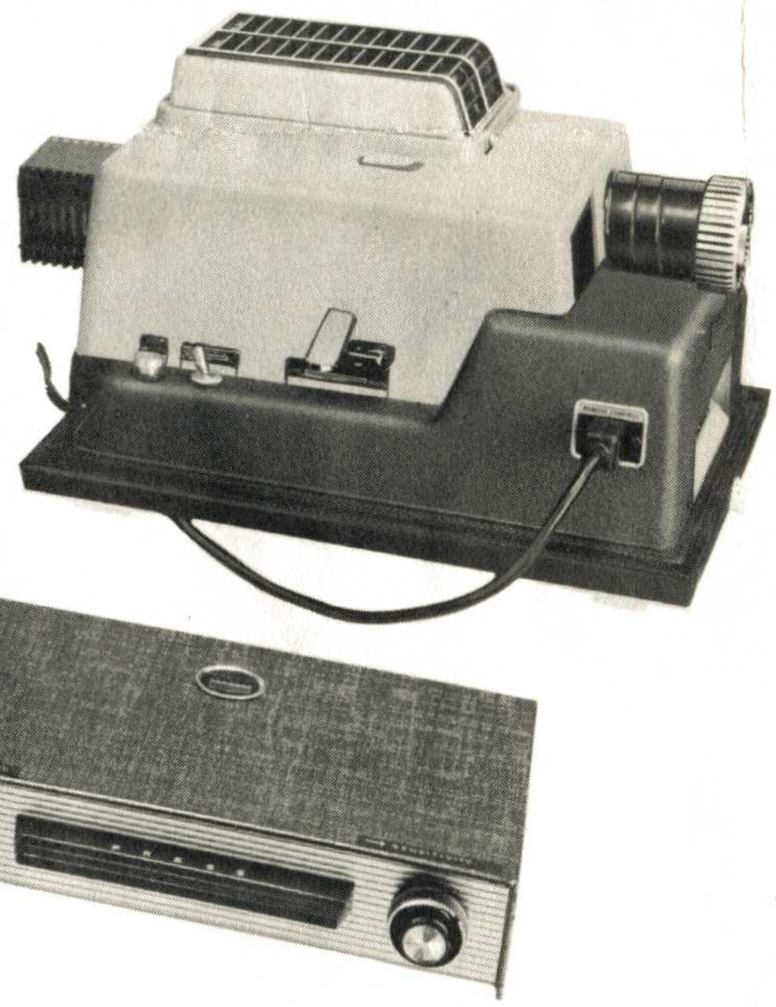
Webcor tape recorder accessory•••

With the new Webcor A2980 Slide Projector Synchronizer, you can make a recorded description of your slides. When used in conjunction with a remote control slide projector, this tape recording can be played and the slides will change automatically.



Visit your Webcor dealer for a demonstration NOW!

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